

additional attractions

#### Scholarships and Financial support

Merit and need based full or partial tuition fee waiver for undergraduate/graduate students.

**Assistantship:** Graduate and senior undergraduate students can work as Research Assistants.

**Internship:** Internship program in development and environmental organizations at home and abroad.

**Thesis:** Graduate students undertake research on environmental topics. Undergraduate thesis (optional) can be completed in one semester.

**Field Work:** Field trips and excursions to areas of environmental hotspots to comply with the course curriculum or as trips organized by the Earth Club, a student body of NSU, devoted to raising environmental awareness.

#### Resources

- Modern Environmental Science Teaching and Research Laboratory, and well-equipped Geographic Information System (GIS) and Environmental Modeling Laboratory funded by UGC-World Bank's Higher Education Quality Enhancement Program (HEQEP).
- An Environmental Resource Center, established under CIDA funded NSU-University of Manitoba joint project.
- Collaboration with universities, research organizations and professional bodies at home and abroad.

- Research and study opportunities with NSU's think tank, the Institute for Development, Environment, and Strategic Studies (IDESS).
- Opportunity to work with the Earth Club, which has acquired recognitions from Bangladesh Government and international organizations.
- A good number of DESM students participate in international seminars, conferences and workshops.

#### Collaborative Research and Training

- Post Graduate Diploma program on ETP Management in collaboration with the German Development Corporation (giz) and the German Association for Water, Wastewater and Waste (DWA).
- Environmental Health and Safety (EHS+) Training Centre funded by the Institute of Sustainable Community (ISC), USA.
- A two-year project on biodiversity conservation through the protection and restoration of water sources of Pablakhali Protected Area in Rangamati district, funded by the World Bank (January 2014-December 2015).
- Longitudinal study to understand details of migration in selected areas of Bangladesh, funded by icddr,b (2014-2015).
- Certificate course on Environmental Impact Assessment and GIS for graduate students and professionals, jointly with Center for Environmental and Geographic Information Services (CEGIS).

Recognizing the expanding interface among various disciplines, DESM has adopted a policy of hiring faculty members from different disciplinary backgrounds with PhD degree from top-ranking universities of the world.

### Learn from the best

#### Mizan R Khan

PhD, University of Maryland-College Park, USA; Master and Bachelor, Peoples Friendship University (PFU), Moscow, Russia

#### Professor

Environmental Policy and Governance, Climate Change Negotiation, Ecological Economics

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#### ATM Nurul Amin

PhD, University of Manitoba, Canada; Master and Bachelor, University of Dhaka, Bangladesh

#### Professor

Urban Environmental Management, Environmental Economics and Finance, Sustainable Development, Urban Informal Sector

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#### Hassan Mahmud

PhD and Master, University of Ottawa, Canada; Bachelor, The Higher Institute of Chemical Technology, Bourgas, Bulgaria

#### Associate Professor and Chair

Chemical Engineering, Water and Wastewater Treatment, Waste Management, Membrane Technology, Environmental Health

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#### Md Jakariya

PhD, Royal Institute of Technology (KTH), Sweden; MPhil, University of Cambridge, UK; Master & Bachelor, Jahangirnagar University, Bangladesh

#### Associate Professor

Environmental Risk Assessment, Water

Pollution, Disaster Management and GIS  
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#### Biswas Karabi Farhana

PhD, University of East Anglia, UK; Master, University of Newcastle, Australia; Master and Bachelor, University of Dhaka, Bangladesh

#### Associate Professor

Atmospheric Science, Air and Water Quality, Pollution Control, Applied Chemistry and Chemical Engineering

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#### Nazmul Ahsan Khan

PhD and Master, Kobe University, Japan

#### Associate Professor

Environmental Health, Phytoremediation, Resource and Energy Science

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#### M Ashiqur Rahman

PhD, University of Sydney, Australia; Master, Australian National University; Master and Bachelor, Bangladesh University of Engineering and Technology (BUET)

#### Assistant Professor

Environmental Management and Development, Integrated Approach for Pollution Control, Disaster Management, Environmental Engineering

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#### Kamrun Nahar

PhD, University of Natural Resources and Life Sciences, Vienna, Austria; Master and Bachelor, University of Dhaka, Bangladesh

#### Associate Professor

Environmental Risk Assessment, Water

#### Assistant Professor

Plant Physiology, Biochemistry and ecology, Drought stress, Soil Chemistry, Renewable energy (Bio-fuel)

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#### Karishma Sinha

Master, King's College London, UK; Bachelor, North South University, Dhaka, Bangladesh

#### Lecturer

Aquatic Resource Management

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#### Faculty Members on Study Leave

**AKM Shahidullah**, PhD Candidate and Master, University of Manitoba, Canada

#### Lecturer

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**Sabrina Islam**, PhD Candidate, University of Manitoba, Canada; Master, AIT, Bangkok, Thailand

#### Lecturer

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**M Moshir Rahman**, PhD Candidate, Delft University of Technology, The Netherlands; Master, City University of New York, USA

#### Lecturer

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Apart from the above full-time faculty members, the department also hires highly experienced part-time and visiting faculty from home and abroad.

#### Partners



UNIVERSITY OF MANITOBA



German Association for Water, Wastewater and Waste



INSTITUTE FOR Sustainable Communities



icddr,b KNOWLEDGE FOR GLOBAL LIFESAVING SOLUTIONS



Canadian International Development Agency



giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH



CEGIS Center for Environmental and Geographic Information Services



Study tour at the Sundarbans



**Department of Environmental Science and Management North South University**  
For further information, please see/contact:  
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Call: +88-02-885-2000, Ext. 2059

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**environmental science and management**

# environmental science and management



North South University



# A pioneer in environmental education in Bangladesh.

North South University (NSU) has been a pioneer among private universities offering environmental education in Bangladesh. Established in 1994 as the Department of Environmental Studies, it took the present name of the Department of Environmental Science and Management (DESM) in 2004. After consolidating the undergraduate study programs, the department started a graduate program in 2009.

## DESM offers

Environmental education and degree of international standards by training students with academic and professional knowledge in environment, health and safety, development, disaster and climate change in response to rising local and international demand for high quality professionals.

- 82 credits of core courses which include thesis (optional) writing and internship
- 15 credits of science concentration core courses or management concentration core courses
- 15 credits of science or management concentration elective courses
- 12 credits of general education courses plus 6 credits of open elective courses.

**Dual Degree:** DESM Students can also earn a second major or minor in another discipline (e.g., in Economics or Business Administration), similar to Economics or BBA students' scope of doing a major or minor in environmental science or environmental management.

**Credit Transfer:** Overseas students often take courses at DESM over a semester or two and transfer those credits back to their respective institutions. Students from universities of Bangladesh may also get admission to DESM under certain conditions after completion of a part of their degrees at other universities. Every year some DESM students also transfer their credits to reputed universities worldwide.



Health of Bangladeshi citizens will be dictated by pollution control.

## Degrees Offered

## Curriculum

- BS in Environmental Science
- BS in Environmental Management
- MS in Environmental Science and Management

## BS in Environmental Science/Management

The undergraduate study for BS in Environmental Science or BS in Environmental Management is a multidisciplinary education program containing a wide range of courses from natural science, applied science and engineering to economics, policy and management.

## Major Features of Undergraduate Curriculum

The four-year BS study in Environmental Science/ Environmental Management requires completion of 130 credits (each course is of three credit hours), which are structured as follows:

The interdisciplinary undergraduate program at the Department of Environmental Science and Management, NSU has all the features and facilities from faculty strength to laboratory support and field work opportunities that ultimately enabled me to pursue graduate study in one of the best universities in the world and return to join the department as a faculty member.

Karishma Sinha  
DESM Graduate  
Joined as Lecturer  
after higher  
education.



## MS in Environmental Science and Management

The graduate program – MS in Environmental Science and Management (MESM) originally started as MS in Resource and Environmental Management (MREM) – has been established in collaboration with the University of Manitoba, Canada. This program is focused on building environmental and natural resource governance and management capacity in Bangladesh. The course content was jointly developed by University of Manitoba and NSU, as part of the CIDA funded project on Building Environmental Governance Capacity in Bangladesh (BEGCB).

The program is interdisciplinary – with overlapping social, ecological and economic issues. It admits students from different academic backgrounds, with emphasis on gender equity.

## Major Features of Graduate Curriculum

This professional master's program, conducted in the evenings, requires about 18 months to complete 39 credits, which are structured as follows:

- 6 credits in 2 foundation courses
- 21 credits of core courses
- 9/6 credits of elective courses
- 3/6 credits through field practicum/ thesis writing

Instead of doing thesis, the option is to do a semester-wide field work. In this instance, their 6 credit will comprise of one course and a field work report, each worth 3 credits.



## Career Prospects

Opportunities for environmental graduates in higher education as well as job markets, both nationally and internationally, are widening everyday.

## Higher Education

Environmental graduates are better suited to pursue higher studies in interdisciplinary field or any other traditional discipline. Highest numbers of scholarships or funding opportunities at Master and PhD levels are available worldwide to study in different fields of environmental science and environmental

management. Approximately 70 percent of DESM graduates receive scholarship and financial support every year to go abroad for higher studies at internationally reputed universities all over the world.

## Job Opportunities

Graduates with environmental education are employed by national and international organizations such as:

- Universities
- Research organizations
- Ministries and departments of environment, education, energy, industry, planning, public works, housing and local government
- Private sector industries and consulting firms
- UN agencies
- Bilateral and multilateral agencies
- Local and international NGOs
- Foreign embassies

## Inspiring research and teaching



Environmental education is for green economy and green jobs.

Nabil Haque  
Environmental Advisor  
Deutsche Gesellschaft für Internationale  
Zusammenarbeit (GIZ) GmbH

I remember in my first job colleagues praising my eagerness to stay updated with new information—a character trait emulated from faculty members of DESM that has served well in my career.

